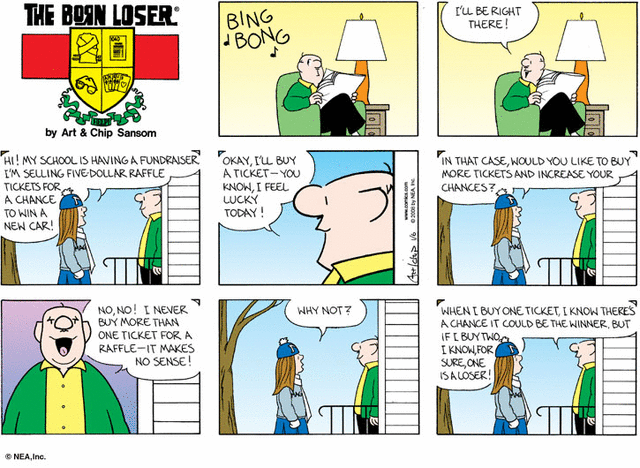
**Probability and Statistics**

[](http://comics.com/the_born_loser/2008-01-06/)

**Teacher:** *Laurie Miller*

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**Book:** Mann, Prem S. Introductory Statistics edition 7. Wiley Publishing.

**Course Description :**

This course consists of a variety of topics. A few of the main topics will be in the following areas: Sets and their operations, counting principles, definition of probability and probability axioms, conditional probability, Bayes Theorem, independence, Bernoulli Trials, discrete random variables, binomial random variable, normal approximation, frequency distributions, measures of central tendency, measures of dispersion, deviations, variance, standard scores, normal distributions, percentiles, box plots, sampling techniques, parameters, estimation, confidence intervals, hypothesis testing, statistical significance, and statistical error.

**EXPECTATIONS:**

* Students are expected to follow the guidelines for dress, and conduct as stated in the student handbook.
* Students are expected to have a ***spiral notebook*** for notes and homework.
* Students are expected to bring textbook, notebook, paper, pencil, and their homework assignment every day to class.
* *ALL COLLECTED WORK IS TO BE PLEDGED.* That is no student should give his work to another or copy another student's work.
* If a student has an *excused absence*, s/he is expected to **tell me as soon as you know so arrangements can be made to complete the work missed** within a reasonable period of time. If a test or quiz is missed then s/he is expected to make up the test after school on scheduled make-up days. ***Missing the day before a test will not necessarily excuse you from taking the test****.*
* Work may **NOT** be made up for *unexcused absences*, per student handbook.

**ASSIGNMENTS:** There are two different types of assignments - homework, and class work/projects.

**HOMEWORK:**  Homework/note spiral notebooks will be **checked on the day of the test**. Each assignment will count 2 points. The homework grade will be based on the ***effort* *and visible attempt***made to complete it, and not necessarily on correctness. Remember that*no problem is too difficult to attempt*. The student is expected to **date, write the page number and problems to be completed at the top of each assignment**. In addition all work must bedisplayed in a neat and orderly manner with appropriate diagrams. Any corrections made inclass should be evident. (approx. 55 points)

**CLASS WORK/Projects:** Occasionally groups of students will be asked to work on a problem or set of problems or concept. Each student in the group will receive the group's score. The group grade will be based on the thoughtfulness and thoroughness of the work. Each member of the group is expected to contribute to the assignment and to ensure that all understand the material. Students will also be asked to use the computer or graphing calculator to discover or explore a new concept and to solve problems.

# TESTS and QUIZZES:

**QUIZZES:** There will be a 15 point quiz given at the end of each week. The questions on these quizzes will be straightforward. The purpose of these quizzes is to help the student remain current in his/her study of Probability and Statistics. ***No make up quizzes will be provided***, ***unless s/he knows they will be absent, in which case the quiz MUST be taken before the missed day****.* If a student misses a quiz due to an unplanned absence, then I will base the quiz grade on the test that covers that material.

**TESTS:** Testswill always be announced and will occur approximately every two weeks. Each test will test the student’s knowledge of the past two weeks worth of material **AND** will also test the student’s knowledge of *any* *material previously covered*. (approx. 300 points)

On my part I will do my best to help you have a very successful school year. Please do not hesitate to ask for extra help if you need it.